Man Is Steadily, Surely Advancing in His Conquest of Elements and Forces of Nature : : :

THERE IS NOTHING NEW UNDER THE SUN

BY WARWICK JAMES PRICE

Brawn Has Gone Down Before Brains, Matter Before Mind; Race Is Progressing : : : :

Dr. Evans, in ancientest Crete, Prosor Flinders Petric, in Egypt, and ir fellow archaeologists the wide ridd over, may be bringing to light of after proof that there's nothing under the sun—the fact yet remains it man is steadily, surely advancing his conquest of the elements and tes of nature. The era of mere ength was closed forever when the gof trained skill dawned. Brawn gone down before brains, matter ore mind, and each recurring twelve. gone down before brains, matter ore mind, and each recurring twelve-nith tells an ever-lengthening story the progress of the race. Nine-nine's contribution to this yet-to-continued serial has been markedly liant. In the laboratories of scien-is and the homes if simple citizens to been solved problems, which long to baffled all attempts at solution. Series before. In the heavens above, ctricity has been put to work as er before. In the beavens above, the earth beneath, and in the waters ler the earth, "The Brains of the r" have achieved victories which in the hopefullest of 1908's proph-might well have hesitated to fore-

The Growth of the Man-Bird.

First of all, 1909 has proven beyond i question that we're going to fly he would have guessed, years ago, as declaimed the sad tale of Darius seen, that he would live to see an aperor greeting a gentleman who had at stepped down from his airship, ier a trip of 460 miles, and introduct him to 'a plain American,' who d grown rich from the sale of aeromes? But thousands besides Withelm and Count Zeppelin and Orville right can attest to the happening a mere existence of such daring felus as the Wrights and Bleriot, Paulmand Parseval, Latham and Lamit, and LeBlane, Curtiss and Cody, utos-Dumont and Summer, Farmand Rougier and Delagrange—the mere that twenty-one cash prizes for aquering the air, ranging from \$200 \$50,000, and totalling at more than 17,000, are awaiting claimants—the re news of flying machines invented Mexico and Russia, China and Norsy—such straws show how blows this entieth-century wind of mechanical The Growth of the Man-Bird. -such straws show how blows this tieth-century wind of mechanical

atham, the Englishman, failed to se the British channel in his mono-ne (missed it by a scant two miles). the Frenchman, Bleriot, needed but ty-seven minutes to soar above the nty-one choppy miles which separate its from Dover. This was in July just before it the brothers Wright returned to their native Ohio, after ories unnumbered in the old world, receive medals and plaudits; and not after the waters of "Le Pas de is" had been vanquished, Wilbur ght maneuvered above New York's ath river with all the easy precision ith was to have been expected of an ator who, in the year, had covered little matter of between 2500 and the state of the s

th scarce a week of the fifty-two ling to produce its item of overhead or four happenings as of especial rtance, but possibly the accomplish-s most nearly of record breaking

are these:

sights—Orville Wright, near Potsdam,
many, in October, rose to a height of

feet, thus surpassing by a good marLambert's spectaculur flight the selfne month, in which he rose 1700 feet,
ling down on the 984-foot pinel tower,
peed—Delagrange, at Deneaster, Engd, in October, drove his machine at
rate of some thing over fifty-foor miles
hour, slightly surpassing the nepleyeor of Orville Wright at Fort Myer in

stance—Henry Farman, at Mour-n, France, in November, covered 114 a in 4 hours, 6 minutes and 25 sec-

es of Glenn Curtiss, at Rheims in rust and at Brescia a month later; the one case he won the interna-

cup by covering, on a circular

What would YOU do

if your best friend had

a job much better than

yours, and your friend's

place was offered to you?

The best answer to this question received by

Saturday morning next will entitle the sender to

a Rowe & Kelly \$3.00 hat. The sender of the

next best answer will receive a pair of kid gloves.

If two or more answers are equally good the one received first will get the decision. Mail your

Rowe & Kelly Co.

Dirigibles and Sphericals.

The dirigible has likewise sailed into the forefront of importance since January last came in. Goodale has hovered along and above the North river (June); Germany's "Grosse II" (August) very handily made a 210-mile journey in fifteen hours and forty minutes; Italian army officers (Qetober) have practically duplicated this, and the French bag "Liberte" has accomplished 161 miles in five and one-half hours. The September, which witnessed this last feat, however, saw also nished for mies in average and a cours. The September, which witnessed this last feat, however, saw also he horrible death dive of France's 'Republique,' an air monster of the 'rigid'' type, savolving four fatalities. Zeppelin would seem to have distanced all competitors of this sort. An all cave its home port.

tanced all competitors of this sort. An airship which can leave its home port, cover 270 miles in varying weather, against head winds and carrying nine men, break a propeller, descend safely, repair damages, rise and go eighty miles farther, land easily and at will, and then cut home again, will, in the language of the man in the street "take a lot of beating." In 1900 the count



perts for the French government are hard at work.

And, if telegraphy without wires must soon "artice." It has not, yet been demonstrated that this is a commercially profitable investment, but five long steps in that direction have been taken this versument been taken this versument been portland, Me, and the Islands in Casco bay; while almost coincidentally, some successful experiments were worked out between Paris and Melun, thirty miles distant. In June the French cruiser Conde, 100 miles at soa, talked freely with the shore, And July brought in tests across the Charles river, near Boston, and between Chicago and Milwankee, both of which "delivered the coods."

Electrically Speaking.

Wires are not yet a drug in the mar-

Wires are not yet a drug in the market, however, for all this marvelous story. Man is working them harder than ever. By the newly-tried "Pollak-Virag" method 40,000 words an hour can not merely be sent hut recorded at the receiving station; the "telegraph wires for phone purposes—and a Mexican, Alberto Sanchez, declares he can now transmit vision as

For the Camera Fiend.

But if the herald of the morning be allowed to speak his little piece, here comes a man who will photograph the notes. Professor D. C. Miller, of Cleveland, says he can do just that. His invention directly photographs sound waves, magnifying them 2000 times and recording them on films.

Something like this is described in a May despatch from Paris, where has been tried a new apparatus for the telegraphic transmission of pictures, called the teleautocopyist, for which is claimed threefold advantages over earlier inventions of the sort that it does not employ photography, works with great rapidity, and does not demand an expert operator. Add to this that Antonio Mantagua, of Rome, has discovered a method whereby photographs may be either telegraphed or telephoned any distance by means of ordinary wires, and that two Englishmen, Erhan and Alberts, have with marked success wedded the color process to the moving picture film, and one sees that the twelve-month has borne fruit for the enthusiasts who press buttons.

In the Laboratories.

In the Laboratories.

In the Laboratories.

The world's physicists, too, have been at work and profitably. Sir William Ramsay announced in March that he had succeeded in transmuting four different substances into carbon; zirconium, thorium, hydro-fluoreillic acid, and bismuth. Dr. E. S. Bailey of New Orleans, a month earlier than this, perfected a substitute for radium; "Radio-Thor," as he calls it, is made of pitchblende, and is not merely cheaper and better than the rare element it replaces, but wholly lacking all of radium's baneful effects. On February 10, Cleveland scientists watched the operation of an oxygen-acetylene torch, which radiated a heat of some 6,300 degrees—sufficient to cut through a 2-inch solid steel plate in 50 seconds, or to weld aluminum, heretofore regarded as impossible. as impossible.

as impossible.

In contrast to these forward steps in chemistry and physics, begotten of patience and long research, stands the important discovery of a Denver jewcler, David Lamon, of the long-lost geret of hardening copper. He found the open sesame through mistaking another compound for borax, which, instead of softening the metal, as borax does, instantly gave to it such a degree. And what of the McAdoo "tubes" burrowing under the river between New York and Jersey City? The first "Pennsy" train ran through in Novem her and the trolleys had been buzzing there five months before that. The steel pipes that bind the two states in amity give the train-sick traveler a cool plunge down a long, dark, submarine

The open sesame through mistaking another compound for borax, which, in stead of softening the metal, as borax does, instantly gave to it such a degree of hardness as to make manipulation out of the question. At once he made analysis of his chance compound, determined its ingredients, and has now guarded his discovery through patent.

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guarded his discovery through patent. The diamond machine of the notorious Lemoine has, of course, been proven worthless (Lemoine's self is in juil to-day), but another Frenchman of very different stripe has shown that he can make artificial sapphires. Louis is his name, and Professor Lacroix himself stands sponsor for him; the basic ingredient is melted alumina with the secret of success hidden in the coloring materials.

materials.
Finally, under this head, Professor Voyle of Berkeley, Cal., says he has discovered how to remove the "drank" from whiskey. "Joy Without a Sting" has been suggested to the gentleman as a fit label for his "packages,"

For the Use of Mars.

Man's ingenuity has not played ser-vant to the cause of peace alone, more's the pity. Hiram Maxim's wonderful gun silencer, reducing the report from even the highest powered rifles to the lowed by a noiseless caunon, which Colonel Humbert of the French forces has produced. England's army is experimenting with a rifle fitted with electrically-lighted sights, for use at night, and with June the McClean-Lissak automatic gun came into the market, where Mars buys his grim supplies. It throws three pound shells a distance of three and a half miles, and at the rate of 250 a minute.

Quite as terrifying is the new "Gabet" torpedo, with which France has made recent demonstrations to her full satisfaction. Twice the size of the old "Whitehead," and charged with nearly 2000 pounds of high explosive, it is controlled by Hertzian waves without so much as a thread to connect it with its pilot, safe on shore. Those who have seen it in operation state that who have seen it in operation state that it advances to reconneiter the hostile vessel in the manner of a miniature submarine, pursue it, harasses it, and performs evolutions about its threatened sides, as though animated by an intelligence of its own—guided all the while by the invisible mechanic. After this the amphibious automobile of the French service, capable of being changed at will from a land to a water machine, reads almost tamely one reads almost tamely

machine, reads almost tamely.

Here at home, our war department has adopted the Dana Dudley 'Panangle Telescope,' a thing simplicity itself in construction yet possibly capable of revolutionizing modern warfare. It consists of reflecting lenses so arranged at angles in a tube that objects above or below or on any side

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What the Future Holds.

It all figures down to about this—
the only thing of which we may feel
reasonably certain is that the unexpeeted may be expected soon. "We'll
be talking with the Martians before
long," remarks Leo Stevens, the aeronaut; and Wilbur Wright anticipates
a sort of flying bicycle, which shall
so primarily affect all transportation
problems as practically to leave great
cities uninhabited at night,—it'll be
so casy to get out and away to the
country, where the air is purer and the
sky more open, and the noises all but
done away with.

One is ceasing to be much surprised
at anything these days. The flying machine of this week is where the automobile was a dozen years ago—and
the then stared at, gapped at "devil
car" is as common as taxes,—and costs
more! With this in mind, what man of
fifty, whose life then spans the increditable marvel of the telephone, will have
the temerity of the "man-birds?" And
think what a spectacular interest life
will all at once take on! The show will
be free. It can't be boarded in like
baseball. One can watch sailing ships
without the bother of going to the shore.
It'll be just overhead—and roof gardens will take on a new lease of life.
A hard of the Detroit Free-Press has
been singing of such a future, and one
ventures to think he's not so preposterously out of the way in his guesses:
Father's in his airship.

Gore lo scent the reserved.

erously out of the way in his guesses:

Father's in his airship.

Gone to spend the day,
Looking after loans and bonds
in Europe, o'er the way.

Mother, who likes comfort,
And does not care to roam,
is shopping via wireless,
In Paris, at her home.

Brother, who in deep seas
Has a coral grove,
Is going in his submarine
Among his crops to rove.
Uncle, in the navy,
Who's left his ship a span,
Is shooting through pneumatic tubes
To join her in Japan.

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Big reductions in wall paper and framed pictures before moving to our elegant new store. Geo. W. Ebert & Co., 57 Main st.

Electropodes Do Wonders For Stomach

Remarkable Electric Device To Produce Wireless Current That Quickly Restores Diseased Stomach and Other Organs.

A Real Treatment For Rheumatism.

We want to call the attention of our readers to a remarkable electric device which seems already to have exploded many pet theories of physicians and scientists, and to have produced positive wonder to those who have used it.

This new invention is called Electropodes, which comes in pairs,—both producing together, it is stated, an unnoticeable yet effective current throughout the entire body, permeating the vital organs, purifying and correcting diseased conditions, regulating vital functions and strengthening the nerves almost beyond description.

It proves at last that electricity is not only life but health, and vigor unsurpassed. It has already produced astonishing results in Stomach and Liver Troubles, Kidney Complaints, Back Pains, Lumbago, Insomnia, Weak Peart, Rheumatism, Nervous Prostration, Neuralgia and Weak Nerves.

Nervous Prostration, Neuralgia and Weak Nerves.

These results are not fanciful but already proven. For those who have relied on medicines for curing the above diseases, these Electropodes come as a distinct revelation.

Those who wear them report an inexpressible new feeling of glow and health to every organ, the nerves, and entire body. Nothing like it has ever been found.

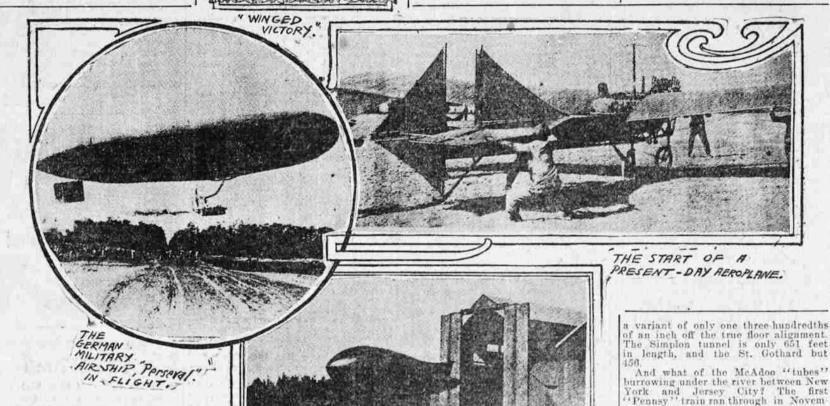
Electropodes are peculiar metallic insoles in appearance, insulated and so placed in the heels of the shoes as to be unnoticeable to the wearer. They are never uncomfortable; indeed, were it not for the glow of energy and health you would never know you had them on. They are different from any other electric device in that they produce a current only when in actual use.

Electropodes have already been distributed so that you can now get them at any drug store at \$1.00 a pair. To prove to you that they do the wonderful things claimed for them, the druggist signs a legal binding contract that if you are not perfectly satisfied with the Electropodes at the end of 30 days, your money will be refunded.

If your druggist should not have Electropodes on hand, have him order thom from

SMITH-BALLEY DRUG CO., Salt Lake Wholesale Distributers.

SMITH-BAILEY DRUG CO., Salt Lake,



managed to do seven miles above Lake Constance; in June of this year he covered 860 miles in thirty-seven hours. and in March he demonstrated that height as well as distance is in his grasp, ascending 6000 feet near Fried-

grasp, ascending 6000 feet near Friedrichshofen.

As for the sphericals, they, too, have been busy and prospering. The 'University City' won the National balloon contest in June, starting from Indianapolis and achieving 380 miles. A few days later the 'Helvetia,' in a little matter of eleven hours, sailed over Mount Blane. The 'New York' to capture the Lahm cup was aloft five minutes less than twenty hours, averaging thirty-nine miles an hour—and (possibly the most noteworthy accomplishment of all) the 'Albatross,' with two Italian adventurers in her basket, rose (August) near Turin to a height

rose (August) near Turin to a height of 38,794 feet, generously bettering the previous height record of 37,100.

The upper air has borne man's messages as well as his flying eraft. Wireless telegraphy, with Count von Arco's 'Sounding Sparks,' and the new de 'Sounding Sparks,' and the new de 'County of the State of the Italians Bellini and Tosi to recenforce earlier methods, has set Paris and New York in communication, and Hawaii and the Oregon coast. New York and Chicago have for the first time been talking in this way (May) and the 'Korea' steaming west ward from the Golden Gate, has kept continuously in touch with San Frances. vices of the Italians Bellini and Tosi

MILITARY

"ALDERSHOT

ENGLAND'S

DIRIGIBLE

continuously in touch with San Francisco over the hitherto unequaled distance of 4730 miles (November).

The saving of fully 3000 lives at the times of the wrecks of the "Republic" (January) and "Slavonia" (June), by means of this same intangible, mysterious, winged agent of man's brain, wrote new wonder stories for all the world. Jack Binns, sticking to his post on a sinking ship, and flashing his "C. Q. D." out through the fog-veil which shrouded what portended only direct tragedy, linked a stort heart to the marvelous ingenuity of the inventor, and death was once more cheated.

spume, push away to the outer day and tell of I have come unseen with secret speech
I have come unseen with secret speech
I have guarded the tale unheard;
I have put mine eyes on the journey's
end and delivered the faithful word

end and delivered the faithful word.

Wireless clocks are telling time in present day Vienna; régulated hour by hour by wireless waves thrown forth from a central mechanism. The Omaha exposition in May was lighted by electricity brought by wireless from a power house six miles distant. Captain Hoyland of Norway's navy has practically perfected a system for the automatic recording in print of wireless messages. Wireless communication is monthly growing more and more practice. messages. Wireless communication is monthly growing more and more practicable between airships and the cities beneath, the Grosse II in August talking quite satisfactory with Frankfurt and Carlsrue. Wireless telegraphy from moving trains has been partially achieved on the limited running between Buffalo and Chicago. Underground wireless is the problem at which ex-

DEAFNESS CURED By New Discovery.



have demonstrated deafness can be

The secret of how to use the mysterious and invisible nature forces for the cure of Deafness and Head Noises has at last been discovered by the famous Physician-Scientist, Dr. Guy Clifford Powell. Deafness and Head Noises has at last been discovered by the famous Physician-Scientist, Dr. Guy Clifford Powell. Deafness and Head Noises disappear as if by magic under the use of this new and wonderful discovery. He will send all who suffer from Deafness and Head Noises full information how they can be cured, absolutely free, no matter how long they have been deaf, or what caused their deafness. This marvelous Treatment is so simple, natural and certain that you will wonder why it was not discovered before investigators are astonished and cured patients themselves marvel at the quick results. Any deaf person can have full information how to be cured quickly and cured to stay cured at home without investing a cent. Write today to Dr. Geo Clifford Powell, 5710 Bank Bidg., Peoria, Ill., and get full information of this new and wonderful discovery, absolutely free.

To Get Us Somewhere.

Ships of another lik have come this year in the British cruiser Indefatigable, the first funnclies vessel ever musched, and the motor boat Roberia, which its inventor, F. L. Heavens, put in the wator, if frenk? funnched, and the motor boat Roberia, which its inventor, F. L. Heavens, put in the wator, if frenk? if frenk? it is inventor, F. L. Heavens, put in the wator, if frenk? it is inventor, F. L. Heavens, put in the wator, if frenk? it is inventor, F. L. Heavens, put in the wator, if frenk? if frenk? it is inventor, F. L. Heavens, put in the wator, if frenk? if

well as voice over the taut metal cave that might be fitted up with stal"string at the top of a row of fish poles." He calls this the "teleradiopticon."

Two recent accomplishments of intertwo recent accomplishments of intert

LEIPSIG

ZWICKAU 2.08 PM.

NUREMBERG

B.IO A.M.

TREUCHTLINGEN

LEAVES RIEDRICHSHAFEN 8.4-2 P.M. SATURDAY

A DIAGRAMATIC VIEW ON ONE OF ZEPPELIN'S '09 FLIGHTS

THE ZEPPELIN II

poles. He calls this the 'teleratiop licon.'

Two recent accomplishments of interest and worth, though differing from these as from each other, came when telegraph messages were for the first time sent from London to Calcutta without transmission (August), a distance of 6,000 miles, and when the non-magnetic survey wacht Cannegie sailed out from her Brooklyn sip headed for Hudson bay. This is but a six months' trip for the all wood Yessel, which is expected to discover all sorts of new and valuable thrings about the earl's magnetic currents. Her next journey is to last lifteen years and cover all this eld earth's seven seas.

To Get Us Somewhere.

Ships of another ilk have come this year in the British craiser Indefatigable, the first funciless vessel ever launched, and the motor boat Roberia, which its inventor, F. L. Heavens, and in the water at Pittsburg in the spring — perhaps a "freak" craft, yet of wonderful speed, with no keel, with its engines only four feet from the bow, and with the propeller under the middle of the hull. As to transportation by land, June brought onto the rails between St. Paul and White Bear, Minn, a "torpede motor" of 200 horse power, gasoline propelled, and capable of reling off seventy-five miles an hour. October saw highly successful tests of treating again, of the gyroscope car patented by Louis Brennau. Think of it? early riage forty feet long and thirteen high, weighing twenty two tons, mounted on a single rail and running freely about a large forty feet long and thirteen high, weighing twenty two tons, mounted on a single rail and running freely about a large for the garden.

House and Garden.

House and Garden.

If you don't want to be on the god labs.

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House and Garden.

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